



**PATENT**

**IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE**

APPLICANTS: James P. Dunyak et al.  
APPLICATION NO.: 10/765,202  
FILING DATE: January 28, 2004  
TITLE: Sub-Symbol Parallel Interference Cancellation  
EXAMINER: Unknown  
GROUP ART UNIT: 2631  
ATTY. DKT. NO.: 58010-00602

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MAIL STOP MISSING PARTS  
COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

**RESPONSE TO NOTICE TO FILE MISSING  
PARTS OF APPLICATION**

SIR:

Responsive to the Notice to File Missing Parts dated June 9, 2004 received in the above-identified patent application,

☒ Enclosed are:

- ☒ a copy of the Notice to File Missing Parts;
- ☒ an original, signed Declaration & Power of Attorney;
- ☒ two checks totaling \$1,570 for the
  - ☒ application filing fee;
  - ☒ fee for additional claims;
  - ☒ two-month extension of time

09/17/2004 SDIRETA1 00000089 10765202

05 FC:2252

210.00 0P

☒ missing parts surcharge; and

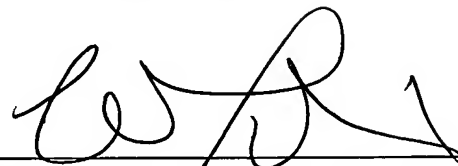
☒ Assignment.

☒ Other: Assignment & Assignment Recordation Sheet

☒ Applicant claims small entity status under 37 C.F.R. § 1.27.

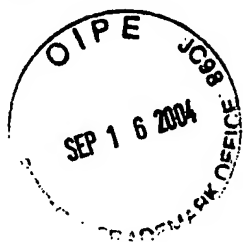
Respectfully submitted,  
JAMES P. DUNYAK ET AL.

Dated: Sept. 16, 2004

By:   
Christopher M. Tobin, Reg. No.: 40,290  
Collier Shannon Scott PLLC  
3050 K Street NW, Suite 400  
Washington, D.C. 20007  
Tel.: (202) 342-8508  
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702114

# Collier Shannon Scott



September 16, 2004

Commissioner for Patents  
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P.O. Box 1450  
Alexandria, VA 22313-1450

**Collier Shannon Scott, PLLC**  
Washington Harbour, Suite 400  
3050 K Street, NW  
Washington, DC 20007  
202.342.8400 TEL  
202.342.8451 FAX  
Christopher M. Tobin  
202.345.8508  
CTobin@colliershannon.com

**Re: U.S. Patent Application No. 10/765,202**  
**Title: Sub-Symbol Parallel Interference Cancellation**  
**Filing Date: January 28, 2004**  
**Inventors: James P. Dunyak et al.**  
**Our Reference: 58010-00602**

Dear Sir:

Transmitted herewith for filing in the U.S. Patent and Trademark Office in connection with the above-referenced U.S. patent application are the following documents:

- (1) Response to Notice to File Missing Parts of Application (2 pages);
- (2) Copy of Notice to File Missing Parts of Application (2 pages);
- (3) Combined Declaration & Power of Attorney (3 pages);
- (4) Fee Transmittal in duplicate (2 pages);
- (5) Assignment and Assignment Recordation (4 pages); and
- (6) Two checks totaling \$1,570

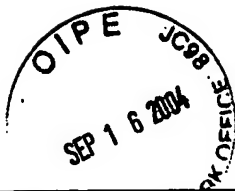
Please date-stamp the enclosed copy of this letter, thereby acknowledging receipt of the above-identified documents.

Sincerely yours,

A large, stylized handwritten signature in black ink, appearing to read "C. M. Tobin".

CHRISTOPHER M. TOBIN, Reg. No. 40,290

Enclosures

PTO/SB/17 (10-01)(modified)  
OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

0002/PTO(modified)  
Rev. 10/2001U.S. Department of Commerce  
Patent and Trademark Office**FEE TRANSMITTAL****TOTAL AMOUNT OF PAYMENT**Subtotal (1) + Subtotal (2) + Subtotal (3) = **\$ 1,570****Complete if Known**

Application Number	10/765,202
Filing Date	January 28, 2004
First Named Inventor	James P. Donyak
Group Art Unit	2631
Examiner Name	Unknown
Attorney Docket Number	58010-00602

**METHOD OF PAYMENT****1. The Commissioner is hereby authorized to:**

- ☐ Charge the indicated fees to the below mentioned deposit account.
- ☒ Charge any additional fee required under 37 CFR 1.16 - 1.21 or credit any over payments to the below mentioned deposit account.<sup>†</sup>
- ☒ Applicant claims small entity status See 37 CFR 1.27

Deposit Account Number: 03-2469

Deposit Account Name: COLLIER SHANNON SCOTT

A Duplicate Copy of this authorization is attached

**2. ☒ Payment Enclosed:**☒ 2 checks ☐ Credit Card ☐ Other**FEE CALCULATION (fees effective 10/01/2001)****1. FILING FEE**

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
101/\$770	201/\$385	Utility Filing	<b>385</b>
106/\$340	206/\$170	Design Filing	
108/\$770	208/\$385	Reissue	
114/\$160	214/\$80	Provisional Filing	
<b>SUBTOTAL (1)</b>			<b>(\$ 385)</b>

**2. CLAIMS**

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description
103/\$18	203/\$9	Claims in excess of 20
102/\$86	202/\$43	Independent claims in excess of 3
104/\$290	204/\$145	Multiple dependent claim
109/\$86	209/\$43	Reissue independent claims over original patent
110/\$18	210/\$9	Reissue claims in excess of 20 and over original patent

**3. ADDITIONAL FEES**

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
105/\$130	205/\$65	Surcharge - late filing fee or oath	<b>65</b>
127/\$50	227/\$25	Surcharge-late provisional filing fee or cover sheet	
147/\$2,520	147/\$2,520	For filing a request for reexamination	
115/\$110	215/\$55	Extension for response within first month <sup>†</sup>	
116/\$420	216/\$210	Extension for response within second month <sup>†</sup>	<b>210</b>
117/\$950	217/\$475	Extension for response within third month <sup>†</sup>	
118/\$1,480	218/\$740	Extension for response within fourth month <sup>†</sup>	
128/\$2,010	228/\$1,005	Extension for response within fifth month <sup>†</sup>	
119/\$330	219/\$165	Notice of Appeal	
141/\$1,330	241/\$665	Petition to revive unintentionally abandoned application	
142/\$1,330	242/\$665	Utility Issue Fee (Or Reissue)	
143/\$480	243/\$240	Design Issue Fee	
122/\$130	122/\$130	Petitions to the Commissioner	
126/\$180	126/\$180	Submission of Information Disclosure Statement	
179/\$770	279/\$385	Request for Continued Examination (RCE)	
581/\$40	581/\$40	Recording each patent assignment per property (times number of properties)	<b>40</b>
146/\$770	246/\$385	Filing a submission after final rejection (37 CFR 1.129(a))	
149/\$770	249/\$385	For each additional invention to be examined (37 CFR 1.129(b))	
Other fee (specify):			
Other fee (specify):			
<b>SUBTOTAL (3)</b>			<b>\$ 315</b>

(Col. 1)		(Col. 2)		(Col. 3)		Fee Due	
For	No. of Existing Claims	minus*	Highest No. Previously Paid For	=	Extra**	x	Fee
TOTAL	88	minus*	20 or	=	68	x	9
INDEP	9	minus*	3 or	=	6	x	43
[ ] First presentation of multiple dependent claim							

\* Subtract the greater number of Col. 2

\*\* If the difference between Col. 1 and Col. 2 is less than zero, then enter "0" in Col. 3

**SUBTOTAL (2)** **(\$ 870)****SUBMITTED BY**Typed or Printed Name **Christopher M. Tobin**

Signature

**Complete (if applicable)**Reg. Number **40,290**

Date

**September 16, 2004**<sup>†</sup> Request for Extension of Time per 37 CFR 1.136 (a)(3) made hereby



## UNITED STATES PATENT AND TRADEMARK OFFICE

 UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/765,202	01/28/2004	James P. Dunyak	58010-00602

CONFIRMATION NO. 7630

## FORMALITIES LETTER



\*OC000000012909871\*

 25243  
 COLLIER SHANNON SCOTT, PLLC  
 3050 K STREET, NW  
 SUITE 400  
 WASHINGTON, DC 20007

09/17/2004 SDIRETA1 00000089 10765202

01 FC:2001	385.00 OP
02 FC:2051	65.00 OP
03 FC:2202	612.00 OP
04 FC:2201	258.00 OP

Date Mailed: 06/09/2004

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 770 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*
- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of \$1740 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$2640 for a Large Entity

- \$770 Statutory basic filing fee.
- \$130 Late oath or declaration Surcharge.
- Total additional claim fee(s) for this application is \$1740

DOCKETED

Date

By

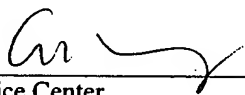
 04/21/04  
 [Signature]

- \$516 for 6 independent claims over 3.
- \$1224 for 68 total claims over 20.

Replies should be mailed to: Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

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*A copy of this notice **MUST** be returned with the reply.*

  
\_\_\_\_\_  
Customer Service Center  
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE